

ABSTRAK

Next Generation Network (NGN) is predicted will be data-aware & QoS adapt. Newly proposed NGN is Named Data Network (NDN). NDN bring a new paradigm with benefit of new routing, forwarding and caching method. Fresly deployment routing protocol is Loop-Free Inport-Dependent (LFID). LFID focused on loop removal, that removing uneffective nexthop choice. The route from LFID protocol will be used by forwarding strategies to decide flow of signalling process and data. This final task simulated an Abilene network topology for researching efficiency of LFID route while using Best Route, Access, Random, adn Multicast forwarding strategy. This network will be evaluated with throughput, delay, hop count, cache hit ratio, packet loss and timeout interest ratio. Implementation of LFID routing protocol is provenly lowering network loop with lower Interest Timeout Rasio and number of Packet Drop based on the simulation. Best Route strategy is not affected by LFID protocol. Random, Access, and Multicast strategy is affevted by LFID protocol that improve Throughput, Cache Hit Rasio, and better Hop Count.

Keywords : *NDN, LFID, Routing, Forwarding, ndnSIM*